



- On Eukaryotic supergroups with emphasis on microbial diversity – Genome Evolution (Bio 351) , Smith College 2007
  - Introduction to Molecular Systematics – Genome Evolution (Bio 351), Smith College 2007
  - Systematic Biology, Uppsala University 2004-2005
- Teaching Assistant: University of Asmara 1997-2000
- Introductory Biology 1997-2000
  - Microbiology 2000
  - Speciation 2000
  - Zoology 1998
  - Entomology 1998
- Instructor: 1994–1995
- Biology instructor, Asmara Comprehensive High school 1996
  - General Science instructor, Hadnet Middle School 1994–1995
- Invited Talks: 2008 - 2009
- Phylogenetic reconciliation of molecules and morphology: Examples from worms and microbial eukaryotes. University of Massachusetts, Amherst 2008
  - Assembling the Eukaryotic Tree of Life, Ecology and Evolutionary Biology, Yale University, New Haven, Connecticut 2009

### List of Publications:

(\*equal contribution)

**Tekle, Y. I.,** Parfrey L.W., Katz L.A. 2009. Molecular Data are Transforming Hypotheses on the Origin and Diversification of Eukaryotes. *BioScience* 59: 471-481.

Grant, J., \***Tekle, Y. I.,** Andersen O.R., Patterson D. J., Katz, L.A. 2009. Multigene evidence for the placement of a heterotrophic amoeboid lineage *Leukarachnion* sp. among photosynthetic stramenopiles. *Protist*, 160: 376 - 388.

Cole, J., Andersen O.R., **Tekle Y. I.,** J. Grant, Katz L. A., Nerad T. A. 2009. Description of a New 'Amoebozoa' isolated from the American Lobster, *Homarus americanus* (in press. *Journal of Eukaryotic Microbiology*)

- Tekle, Y. I.**, Grant J., Cole J., Nerad T. A., Patterson D. J., Anderson O. R., Katz L. A. 2008. Phylogenetic placement of diverse amoebae inferred from multigene analysis and assessment of the stability of clades within 'Amoebozoa' upon removal of varying fast rate classes of SSU-rDNA. *Mol. Phylog. and Evol.* 47: 339-352
- Yoon, H. S., J. Grant\*, **Tekle, Y. I.**, M. Wu, B. C. Chaon, J. C. Cole, J. M. Logsdon, D. J. Patterson, D. Bhattacharya, L. A. Katz. 2008. A Broadly Sampled Multigene Tree of Eukaryotes. *BMC Evolutionary Biology* 8:14
- Tekle, Y. I.**, Grant J., Cole J., Nerad T. A., Patterson D. J., Anderson O. R., Katz L. A. 2007. Multigene analysis of *Corallomyxa tenera* sp. nov. suggests its membership in a clade that includes *Gromia*, Haplosporidia and Foraminifera. *Protist*, 158: 457-472
- Tekle, Y. I.**, Raikova O., Justine J-L. and Jondelius U. 2007. Ultrastructure and Tubulin Immunocytochemistry of the Copulatory Stylet-like structure in *Childia* species (Acoela). *Journal of Morphology* 268(2):166-80.
- Tekle, Y.I.**, Raikova, O, Justine, J-L, Hendelberg, J, Jondelius, U. 2007. Ultrastructural and immunocytochemical investigation of acoel sperms with 9 + 1 axoneme structure: new sperm characters for unraveling phylogeny in Acoela. *Zoomorphology* 126:1-16.
- Raikova, OI, **Tekle Y.I.**, Reuter M, Gustafsson MK, Jondelius U. 2006. Copulatory organ musculature in *Childia* (Acoela) as revealed by phalloidin fluorescence and confocal microscopy. *Tissue Cell.* 38(4):219-32.
- Tekle, Y. I.**, Raikova O. and Jondelius U. 2006. A new viviparous acoel *Childia vivipara* sp. n. with observations on the developing embryos, sperm ultrastructure, body wall and stylet musculatures. *Acta Zoologica* 87: 121-130.
- Ogunlana M. V., Hooge M. D., **Tekle Y. I.**, Benayahu Y., Barneah O., and Tyler S. 2005. *Waminoa brickneri* n. sp. (Acoela: Acoelomorpha) associated with corals in the Red Sea. *Zootaxa* 1008: 1-11.
- Tekle, Y. I.**, Raikova O., Ahmadzadeh A., and U. Jondelius. 2005. Revision of the Childiidae (Acoela), a total evidence approach in reconstructing the phylogeny of acoels with reversed muscle layers. *J. of Zool. Systemat. Evol. Res.* 43(1):72-90.
- Tekle, Y. I.** 2004. A new *Haploposthia* species (Acoela) from the Swedish west coast. *Sarsia* 89:85-90.

### Manuscripts in preparation

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(† undergraduate author)

**Tekle, Y. I., Grant J., †Kovner, A., Katz, L.** Identification of new molecular markers for assembling the eukaryotic tree of life. (*under review, MPE*)

Parfrey L.W., Grant J., **Tekle, Y. I.**, Lasek-Nesselquist E., Morrison, H. G., Sogin M. L., Patterson, D. J., Katz, L.A. Broadly Sampled Multigene Trees Yield a Well-resolved Eukaryotic Tree of Life (*under review*)

†Lyman C., **Tekle Y. I.**, Katz, L.A. Unusual Patterns of Genome Evolution in the Ciliate Clade Heterotrichea. (*in prep. > 90% complete*)

**Tekle, Y. I.**, Hooge M. D., Maloy A. and Tyler S. Molecular phylogeny of the Haploposthiidae (Acoela). (*in prep. > 60% complete*)

### Thesis works

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**Tekle, Y. I.** (2006). Phylogeny and Taxonomy of *Childia* (Acoela): New characters for unraveling acoel phylogenies from molecules, ultrastructure, immunocytochemistry and confocal microscopy. *Acta Universitatis Upsaliensis. Comprehensive Summaries of Uppsala Dissertations from the Faculty of Science and Technology*; 140. 44 pp. Uppsala.

**Tekle, Y. I.** 2004. Evolution of the Acoela, with emphasis on the Childiidae, acoels with reversed body-wall musculature. (*Licentiate Thesis, Department of Systematic Zoology, Evolutionary Biology Centre, Uppsala University*).

**Tekle, Y. I.** 2002. Can Histone H3 alone or combined with 18S rDNA and Elongation factor 1-alpha solve the phylogenetic position of the Acoela? (Master's Thesis, *Department of Systematic Zoology, Evolutionary Biology Centre, Uppsala University*).

**Tekle, Y. I.** 1997. Antimicrobial activity of seven selected medicinal plants. (*Undergraduate thesis, Department of Biology, Asmara University*)

### Selected presentations in conference/meetings:

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Infectious Disease Modelling Workshop July 6-8, 2009. University of KwaZulu Natal, Durban, South Africa.

Models of Infectious Disease Study (MIDAS) Meeting on Flu and MRSA. June 11-13, 2009. Emory University, Atlanta, GA.

Workshop on "Mathematical Biology and Numerical Analysis", Aug. 01-02, 2009, Athens, GA, University of Georgia, USA

- Tekle Y. I. J. Grant and Katz L. Multigene analyses approach in resolving relationships of major groups of Eukaryotes: 'Rhizaria' and 'Amoebozoa' 2008 Gordon Molecular evolution, Ventura, CA
- Tekle Y. I. J. Grant and Katz L. Placement of diverse amoeboid lineages in the eukaryotic tree of life and the evolution of 'Amoebozoa'. 2007, Join meeting of ISOP/PSA Providence, Rhode Island
- Tekle Y. I. J. Grant and Katz L. Placement of diverse amoeboid lineages in the eukaryotic tree of life and the evolution of 'Amoebozoa'. 2007, Join meeting of ISOP/PSA Providence, Rhode Island
- Tekle Y. I., Revealing The Evolutionary History Of An Unknown Amoeba: Multigene Analysis Of *Corallomyxa tenera* sp. nov. Small Matters: Microbes and Their Role in Conservation. The Center for Biodiversity and Conservation's Twelfth Annual Symposium (poster)
- Tekle Y. I. and Katz L. Searching for new molecular markers for AToL. AToL meeting 2007. (Oral presentation)
- Tekle Y. I., Raikova O., Ahmadzadeh A., and U. Jondelius. 2004. Total Evidence Phylogeny of *Childia* (Acoela), Worms With Inside-out Muscle. 'Poster presentation Hennig XXIII - Paris, 2004' Abstract published in CLADISTICS 20 (6): 606-607. or <http://www.blackwell-synergy.com/doi/full/10.1111/j.1096-0031.2004.00035.x>
- Tekle Y. I. 2005 (Oral presentation). Ultrastructural and immunocytochemical investigation of acoels with 9 + 1 axoneme structure, non-homologous with that of the Trepaxonemata (Platyhelminthes). The fifth biennial meeting of The Systematics Association Cardiff, Wales

## Awards

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- Hegel Axelsson - (6,000 USD) research grant for Acoela systematics
- Sida/SAREC - Ph.D. fellowship (research facilities and stipend)
- ISP-Uppsala - (1300 USD) research grant to conduct fieldwork at the Swedish west coast
- Travel award - (700 USD)UC DAVIS workshop
- Travel award - (500 USD)American Museum of Natural History - POY workshop
- Travel award - Athens, GA, University of Georgia, USA

## Photo Credits

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- Cover photo for Journal of Zoological Systematics and **Evolutionary Research**.  
<http://www.blackwell-synergy.com/toc/jzs/43/1>

## Peer review participation

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Protist  
Molecular Phylogenetics and Evolution  
Acta Protozoologica  
BMC Microbiology  
Oyster Disease Research Program

## References

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**Alison Galvani, Assistant Professor**  
Yale University School of Medicine  
Department of Epidemiology and Public Health  
60 College Street, Haven, CT 06520-8034  
Phone: (203)785-2642  
Fax: (203)785-3260  
[alison.galvani@yale.edu](mailto:alison.galvani@yale.edu)

**Jeffrey P. Townsend, Assistant Professor**  
Dept. of Ecology and Evolutionary Biology  
Yale University P.O. Box 208106  
165 Prospect Street  
New Haven, CT 06520  
Phone: 203 432-4646  
[Jeffrey.Townsend@Yale.edu](mailto:Jeffrey.Townsend@Yale.edu)

**Laura A. Katz, Associate Professor**  
Department of Biological Sciences  
Smith College  
Northampton, MA 01063  
Phone: 413-585-3825  
Fax: 413-585-3786  
[lkatz@email.smith.edu](mailto:lkatz@email.smith.edu)

**O. Roger Anderson, Professor**  
*Lamont-Doherty Earth Observatory of Columbia University,*  
*Palisades, New York 10964*  
Phone: 212-678-3385  
[ora@ldeo.columbia.edu](mailto:ora@ldeo.columbia.edu)

**Olga I. Raikova,**  
Ph. D. Senior Scientist at the Zoological Institute of the Russian Academy of Sciences  
Universitetskaya nab., 1; 199034 St.-Petersburg, Russia  
E-mail: [raikova@swipnet.se](mailto:raikova@swipnet.se); Phone +7(812) 5525960

**Ulf Jondelius, Professor**  
Head of department  
Invertebrate Zoology  
Swedish Museum of Natural History  
Box 50007  
SE-104 05 Stockholm, Sweden  
E-mail: [ulf.jondelius@cbc.uu.se](mailto:ulf.jondelius@cbc.uu.se)

tel +46-8-5195 40 51  
mobile +46-70 783 87 11

**Isabel Sanmartín, Assistant Professor**  
Department of Systematic Zoology  
Norbyvägen 18D, SE-752 36, Uppsala